



360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

19 OPERATOR'S MANUAL

MM101027V1 R1A

Operator's Manual

PANTHER™ 300P
Portable Radio



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SAFETY TRAINING INFORMATION



WARNING

Your Com-Net Ericsson radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only" meaning it must be used only during the course of employment by individuals aware of the hazards and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only." In addition, your Com-Net Ericsson radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1 – 1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3 – 1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave.



To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by Com-Net Ericsson or an antenna specifically authorized by Com-Net Ericsson for use with this radio.
- DO NOT transmit for more than 50% of total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX" LED on top of the radio is lit. You can cause the radio to transmit by pressing the "PTT" button.
- ALWAYS use Com-Net Ericsson authorized accessories (antennas, batteries, belt clips, speaker/mics, etc). Use of unauthorized accessories may cause the FCC Occupational/ Controlled Exposure RF compliance requirements to be exceeded.

- ALWAYS keep the device and its antenna at least 2.0 cm (0.8 inch) away from the body and 5 cm (2 inches) from the face when transmitting to ensure FCC RF exposure compliance requirements are not exceeded. This radio has been tested for RF exposure compliance at a distance of 1.3 cm from the body and 4.0 cm from the face for a worse case scenario. However, to provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from mouth, and slightly off to one side.

The information listed above provides the user with the information needed to make him or her aware of a RF exposure, and what to do to assure that this radio operates within the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, your Com-Net Ericsson radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

SAFE PRACTICE INFORMATION

The operator of any land mobile radio should be aware of certain hazards common to the operation of radio transmitters. **A list of several possible hazards is given:**

1. **Explosive Atmospheres** - Areas with potentially explosive atmosphere are often, but not always, clearly marked. These may be fueling areas, such as gas stations, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Turn OFF your radio when in any area with a potentially explosive atmosphere. It is rare, but not impossible that the radio or its accessories could generate sparks.

2. **Electronics Systems** - RF energy from your portable radio may affect some electronic equipment. Most modern electronic equipment in cars, hospitals, homes, etc. are shielded from RF energy. However, in areas that instruct you to turn off two-way radio equipment, always observe the rules. **If in doubt, power the radio OFF.**
3. **Dynamite Blasting Caps** - Dynamite blasting caps may be caused to explode by operating a radio within 500 feet of the blasting caps. Always obey the **"Turn Off Two-Way Radios"** signs posted where dynamite is being used.

When transporting blasting caps in your vehicle:

- Carry the blasting caps in a closed metal box with a soft lining.
 - Leave the radio **OFF** whenever the blasting caps are being put into or removed from the vehicle.
4. **Radio Frequency Energy** - Do not use a radio with a

damaged or missing antenna. A minor burn may result if a damaged antenna comes into contact with the skin. Replace a damaged antenna immediately. A missing antenna could damage your radio. Use only the supplied or approved antenna. Unauthorized antennas, modifications, or attachments could damage the radio unit and may violate FCC regulations.

Always turn off your portable radio before boarding any aircraft. Use it on the ground only with crew permission. Do not use it in the air.

5. **Safe Driving Recommendations -**
(Recommended by AAA)

Read the literature on the safe operation of the radio.

Keep both hands on the steering wheel and the radio secured whenever the vehicle is in motion.

Place calls only when vehicle is stopped.

- When talking from a moving vehicle is unavoidable, drive in the slower lane. Keep conversations brief.
- If a conversation requires taking notes or complex thought, stop the vehicle in a safe place and continue the call.
- Whenever using a radio, exercise caution.

OPERATING RULES AND REGULATIONS

Two-way FM radio systems must be operated in accordance with the rules and regulations of the local, regional, or national government.

In the United States, the PANTHER™ 300P portable radio must be operated in accordance with the rules and regulations of the Federal Communications Commission (FCC). As an operator of two-way radio equipment, you must be thoroughly familiar with the rules that apply to your particular type of radio operation. Following these rules helps eliminate confusion, assures the most efficient use of the existing radio channels, and results in a smoothly functioning radio network. When using your two-way radio, remember these rules:

1. It is a violation of FCC rules to interrupt any distress or emergency message. As your radio operates in much the same way as a telephone **"party line"**, always listen to make sure that the channel is clear before transmitting. Emergency calls have priority over all other messages. If someone is sending an

emergency message - such as reporting a fire or asking for help in an accident - **KEEP OFF THE AIR!**

2. The use of profane or obscene language is prohibited by Federal law.
3. It is against the law to send false call letters or false distress or emergency messages. The FCC requires that you keep conversations brief and confine them to business. To save time, use coded messages whenever possible.
4. Using your radio to send personal messages (except in an emergency) is a violation of FCC rules. You may send only those messages that are essential for the operation of your business.
5. It is against Federal law to repeat or otherwise make known anything you overhear on your radio. Conversations between others sharing your channel must be regarded as confidential.
6. The FCC requires that you identify yourself at certain specific times by means of your call letters. Refer to the

rules that apply to your particular type of operation for the proper procedure.

7. No changes or adjustments shall be made to the equipment except by an authorized or certified electronic technician.

IMPORTANT

Under U.S. law, operation of an unlicensed radio transmitter within the jurisdiction of the United States may be punishable by a fine of up to \$10,000, imprisonment for up to two years, or both.

OPERATING TIPS

Antenna location and condition is important when operating a portable radio. Operating the radio in low areas or terrain, under power lines or bridges, inside of a vehicle or in a metal or steel framed building can severely reduce the range of the unit. Mountains and buildings can also reduce the range of the unit.

In areas where transmission or reception is poor, some improvement may be obtained by ensuring that the antenna is vertical. Moving a few yards in another direction or moving to a higher elevation may also improve communications. Vehicular operation can be aided with the use of an externally mounted antenna.

Battery condition is another important factor in the trouble free operation of a portable radio. Always use properly charged batteries.

For efficient radio operation, hold the front of the portable radio approximately two inches from your mouth and speak into the microphone at a normal voice level. Keep the antenna in a vertical position when receiving or transmitting a message. Do not hold the antenna when receiving a message and, especially, do **not** hold it when transmitting a message.

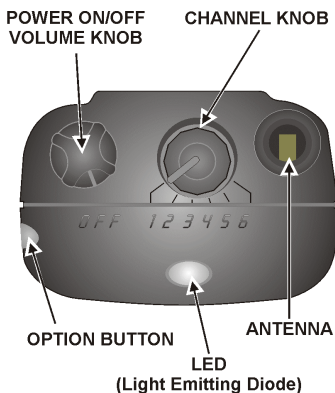
INTRODUCTION

This manual describes the operation of the Com-Net Ericsson PANTHER™ 300P portable radio. The PANTHER 300P portable radio is a high performance FM portable radio providing reliable two-way communication in a Conventional Radio System.

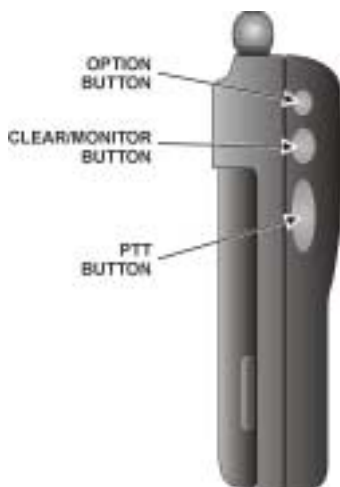
The PANTHER 300P portable radio can be programmed with up to six channels. The PANTHER 300P portable radio operates on any of the following Conventional platforms:

- Channel Guard
Encode/Decode
[Squelch Tail Elimination
(STE) optional]
- Digital Channel Guard
Encode/Decode
- Type 99 Decode

CONTROLS AND INDICATORS



**Figure 1 – Panther 300P Radio
Top View**



**Figure 2 – PANTHER 300P Radio
Side View**

Monitor/Clear Button Function

This section describes the functionality of **Monitor/Clear** button.

Monitor/Clear

The **Monitor/Clear** function monitors the channel for activity. While the **Monitor/Clear** is pressed, squelch, the Channel Guard decoder, and the Type 99 decoder are disabled.

If the channel is clear, squelch noise will be heard. If the channel is busy, traffic will be heard.

When the **Monitor/Clear** button is released, squelch, Channel Guard, and Type 99 are re-enabled.

After a successful Type 99 decode, press the **Monitor/Clear** button to switch the Type 99 Decoder state from Monitor mode to Selective Call mode.

Option Button Functions

The following functions can be assigned to the **Option** button.



NOTE

Press and hold the **Option** button to execute the programmed function.

Table 1: Programmed Functions States

Function	1 Short High Tone	2 Short High Tones
High/Low Power	High Power	Low Power
Local/Distant Squelch	Local	Distant
Type 99	ON	OFF

Disabled

No function is assigned to the **Option** button. When pressed, the radio will emit a Denied Alert Tone.

High/Low Power

The High/Low Power function toggles the transmitter power between “High” and “Low”. “High” power is the longer-range setting. “Low” power is the battery-life conserving setting.

Local/Distant Squelch

The Local/Distant Squelch function toggles the channel squelch setting between “Local” and “Distant”. “Local” squelch reduces the number of received degraded transmissions. “Distant” squelch

increases the number of received transmissions.

Type 99 ON/OFF

The Type 99 function toggles the state of the Type 99 Decoder between "ON" and "OFF". Type 99 mutes receive audio until a valid Type 99 call is received. "ON" indicates the radio is operating in Selective Call mode. "OFF" indicates the radio is operating in Monitor mode.

If an invalid or no Type 99 decode is programmed on a channel, the Type 99 function is programmed for the **Option** button and the **Option** button is pressed, the radio will emit a Denied Alert Tone.

PANTHER 300P RADIO INDICATORS

The Light Emitting Diode (LED) and tones indicate the state of the radio.

Table 2: Radio Indicators

LED Indicators: ● continuous ✱ flashing

Indicator Tones: High Mid Low

LED	Tone	Function
	3 mid tones	Power-up complete
	1 mid tone	Low battery
	continuous high tone	Transmit timer has expired ¹
	continuous mid tone	Channel is busy ² or synthesizer error
	continuous low tone	Fatal error
	1 short mid tone	Action denied

The following features must be enabled during programming to receive listed indication:

¹ CCT (Carrier Control Timer) – the radio will emit this alert until the PTT button is released.

² TX Busy

LED Indicators: ● continuous ✱ flashing

Indicator Tones: High Mid Low

LED	Tone	Function
	1 short high tone	Programmed function toggled
	2 short high tones	Programmed function toggled
✱ green	1 short tone	Receiving Type 99 Individual Call
✱ green	2 short tones	Receiving Type 99 Group Call
✱ green	3 short tones	Receiving Type 99 Super Group/Quick Call
✱ red	continuous mid tone	Battery too low to transmit ³
● red		Transmitting
● green		Receiving or channel in use
✱ green		Program mode
✱ amber		Error or failure
✱ red ✱ green		Low battery while operating on a Type 99 channel

³ Multiple Low Battery Alerts – occurs after PTT

BASIC OPERATION

Selecting A Channel

Rotate the **Channel Knob** clockwise or counterclockwise until the raised rib aligns with the desired channel number.

Transmitting A Basic Call

1. Power ON the radio.
2. Select a channel.
3. Ensure there is no activity on the channel by:
 - checking the **TX/RX LED**.
 - pressing and holding the **Monitor/Clear** button. Squelch noise will be heard if the channel is clear of traffic.
4. Hold the radio approximately 2 inches from your mouth, press the **PTT** button and speak in the microphone.



NOTE

Speak in a normal volume. Shouting will degrade your transmission.

5. Release the **PTT** button after you have finished speaking.

Channel Guard

Channel Guard is a method of reducing "channel chatter" by equipping receivers with tone-responsive devices, which only allow calls with the correct sub-audible tones to be heard by the user. Channel Guard options and parameters are defined in the radio personality.

The radio can be programmed on a per-channel basis to encode and/or decode Channel Guard tones. Squelch Tail Elimination (STE) can be enabled or disabled on a channel programmed with a Channel Guard tone.

Channel Guard Monitor Function

The radio can be programmed, on a per-channel basis to transmit with or without Channel Guard tones. STE can optionally be enabled on a per-channel basis.

Ensure there is no activity on the channel by:

- checking the **TX/RX LED**.
- pressing and holding the **Monitor/Clear** button. Squelch noise will be heard if the channel is clear of traffic.

Digital Channel Guard

Digital Channel Guard performs similar to Channel Guard except sub-audible codewords are decoded and/or encoded. STE is standard with Digital Channel Guard operation.

SELECTIVE SIGNALING

Selective signaling controls the muting and unmuting of the receive audio. This allows a user or dispatcher to selectively call an individual radio or group of radios. The PANTHER 300P portable radio supports selective signaling in Type 99 decode format.

In a selective signaling environment, the PANTHER 300P portable radio operates in one of two states, Monitor mode or Selective Call mode.

In the Monitor mode, the decoder is disabled and all calls are heard by the user.

In the Selective Call mode, the decoder is enabled and only calls intended for the user will be heard.

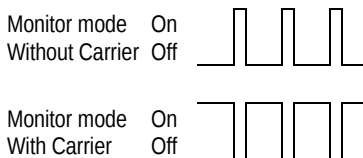
Selective signaling operates with or without Channel Guard. If Channel Guard is enabled, the radio can be programmed with an "And" or an "Or" option.

If the "And" option is programmed, only calls with the correct selective signaling **AND** correct Channel Guard tones are heard by the user.

If the "Or" option is programmed, calls with the correct Channel Guard **OR** calls with the correct

selective signaling and Channel Guard tones are heard by the user.

A radio operating in Selective Call mode that receives a selective call switches to the Monitor mode and the **TX/RX LED** flashes green. The **TX/RX LED** indicates whether the channel has a carrier signal. The following graphic depicts the flashing pattern of the **TX/RX LED**.



Type 99 Operation

Type 99 is Com-Net Ericsson's proprietary method for in-band, two-tone sequential signaling. Type 99 is a conventional signaling protocol that controls the muting and unmuting of a radio. Type 99 encoded base stations, mobiles, or portables can selectively call individual units or groups of units in a conventional system. Type 99 is used in paging operations; a dispatcher has the ability to selectively call a radio or a group of radios.

If Type 99 is enabled in the radio personality, the radio can decode

Individual, Group and Supergroup Type 99 calls. See Table 2 for radio indicator information for each of these types of calls.

Resetting Type 99 After A Call

After decoding a Type 99 call, the radio operates in Monitor mode and all traffic on the channel is audible. If the channel has Channel Guard, only the traffic with the radio's Channel Guard tone will be heard.

To reset Type 99 operation, use one of the following methods:

- Press the **Monitor/Clear** button.
- Press the **Option** button, only if **Option** button is programmed with Type 99 ON/OFF function.
- Allow the "Auto-Reset" timer to reset the Type 99 decoder (only if the "Auto-Reset" timer is enabled in the radio personality).

PROGRAMMABLE PTT FUNCTIONS

Channel Busy Lockout

The radio may be programmed with the Channel Busy Lockout feature, which denies the use of the transmitter when the channel is busy with traffic.

If the **PTT** button is pressed while the **TX/RX LED** is ON, the radio will emit an alert tone until the **PTT** is released.

Channel Guard Channel Busy Lockout

The radio may be programmed with the Channel Guard Busy Lockout feature, which denies the use of the transmitter when the channel is busy with another Channel Guard tone. The radio will transmit when the channel is busy with the radio's Channel Guard tone.

If the **PTT** button is pressed while the **TX/RX LED** is ON and the radio is muted because of an incorrect Channel Guard tone, the radio will emit an alert tone until the **PTT** is released.

Type 99 Disable After PTT

The radio may be programmed with the Type 99 Disable After PTT feature, which automatically disables the Type 99 decoder after a transmission.

Use one of the methods outlined in the “Resetting Type 99 After A Call” section to reset Type 99 operation.

CLONING

CopyCat™ Technology, a cloning feature, allows supervisor radios to duplicate radio personalities into subordinate radios on-site without a technician or PC. For more information about the CopyCat Technology and configuration refer to the Panther 300 Series Maintenance manuals, the On-Line Help in ProGrammer, or contact your system administrator.

BATTERY OPERATION

Removing The Battery

Make sure the power to the radio is turned OFF.

1. Press the latch at the bottom of the battery pack.
2. Lift the battery pack from the bottom.
3. Remove the battery pack from the radio.



Attaching The Battery

Make sure the power to the radio is turned OFF.

1. Align the tab on the top of the battery pack with the slot at the top of the battery cavity.
2. Push the battery pack down to attach the battery to the radio. The user should hear a “click” when the battery pack is securely attached.
3. Verify the battery is securely latched to the radio.



Low Battery Detection And Operation

The PANTHER 300P portable radio constantly monitors the charge-state of the battery. The radio will emit a Low Battery Alert Tone when the battery capacity is low and the **TX/RX LED** will flash red. When this occurs, recharge the battery.

The radio can be programmed to emit only one Low Battery Alert Tone or emit one Low Battery Alert Tone every 60 seconds.

The PANTHER 300P portable radio also monitors the battery voltage while transmitting. If the battery level drops below a set level, the radio will stop transmitting, the **TX/RX LED** will flash red, and will emit an alert tone until the PTT switch is released.

The PANTHER 300P portable radio is not capable of turning itself off when the battery level falls below that required for the radio to operate. It is possible to excessively discharge the battery, which will reduce battery capacity and battery life.

Recharging The Battery

Recharge the battery when the radio **TX/RX LED** exhibits a Low Battery indicator. When charging a battery pack that is attached to a radio, always turn the power to the radio OFF to ensure a full charge. For specific instructions, refer to the applicable charger Operator's Manual. Charging in non-Com-Net Ericsson equipment may lead to battery damage and void the battery warranty.

Conditioning The Battery

Batteries that have been stored (charged or discharged) will generally not be capable of full capacity until the batteries have been fully cycled two or three times. (Charging the battery in a Com-Net Ericsson charger and then discharging the battery pack with the radio until low battery is indicated is considered one cycle.)

Battery Care & Maintenance

- Your charger is intended for indoor use only. Keep the charger and/or wall cube dry. **Do Not** use in or near water.
- **Never** let the battery contacts touch metal objects that could short-circuit the contacts. For example, keys or coins in your pocket.
- **Do Not** disassemble a battery.
- **Do Not** dispose of a battery in a fire.
- Use only the supplied or Com-Net Ericsson specified batteries and chargers.

- When the radio is not in use, turn the power to the radio OFF. Do not over discharge the battery. This will reduce battery capacity and battery life.
- Do not overcharge the battery. A battery should not be kept in a charger for over 24 hours. Overcharging batteries will reduce battery capacity and battery life.
- Periodically condition your battery for improved battery capacity and performance.

Battery Recycling



The product that you have purchased contains a rechargeable, recyclable battery. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal. Call Toll Free 1-800-8-BATTERY or go to the Rechargeable Battery Recycling Corporation website www.rbcc.com for additional information.

WARRANTY

- A. Com-Net Ericsson Critical Radio Systems, Inc. (hereinafter "Seller") warrants to the original purchaser for use (hereinafter "Buyer") that Equipment manufactured by Seller shall be free from defects in material, workmanship and title, and shall conform to its published specifications. With respect to any Equipment not manufactured by Seller (except for integral parts of Seller's Equipment to which the warranties set forth above shall apply). Seller gives no warranty, and only the warranty, if any, given by the manufacturer shall apply. Batteries are excluded from this warranty but are warranted under a separate Nickel-Cadmium Battery Warranty.
- B. Seller's obligations set forth in Paragraph C below shall apply only to failures to meet the above warranties (except as to title) occurring within the following periods of time from date of sale to the Buyer and are conditioned on Buyer's giving written notice to Seller within thirty (30) days of such occurrence:
 - 1. for fuses, incandescent lamps, vacuum tubes and non-rechargeable batteries, operable on arrival only.
 - 2. for parts and accessories (except as noted in B.1) sold by Seller's Service Parts Operation, ninety (90) days.
 - 3. for all other Equipment of Seller's manufacture, one (1) year.
- C. If any Equipment fails to meet the foregoing warranties, Seller shall correct the failure at its option (i) by repairing any defective or damaged part or parts thereof, or (ii) by making available at Seller's factory any necessary repaired or replacement parts. Any repaired or replacement part furnished hereunder shall be warranted for the remainder of the warranty period of the Equipment in which it is installed. Where such failure cannot be corrected by Seller's reasonable efforts, the parties will negotiate an equitable adjustment in price. Labor to

perform warranty service will be provided at no charge during the warranty period only for the Equipment covered under Paragraph B.3. To be eligible for no-charge labor, service must be performed by an Authorized Service Center (ASC) or other Servicer approved for these purposes either at its place of business during normal business hours, for mobile or personal equipment, or at the Buyer's location, for fixed location equipment. Service on fixed location equipment more than thirty (30) miles from the Service Center or other approved Servicer's place of business will include a charge for transportation.

- D. Seller's obligations under Paragraph C shall not apply to any Equipment, or part thereof, which (i) has been modified or otherwise altered other than pursuant to Seller's written instructions or written approval or, (ii) is normally consumed in operation or, (iii) has a normal life inherently shorter than the warranty periods specified in Paragraph B, or (iv) is not properly stored, installed, used, maintained or repaired, or, (v) has been subjected to any other kind of misuse or detrimental exposure, or has been involved in an accident.
- E. The preceding paragraphs set forth the exclusive remedies for claims (except as to title) based upon defects in or nonconformity of the Equipment, whether the claim is in contract, warranty, tort (including negligence), strict liability or otherwise, and however instituted. Upon the expiration of the warranty period, all such liability shall terminate. The foregoing warranties are exclusive and in lieu of all other warranties, whether oral, written, expressed, implied or statutory. NO IMPLIED OR STATUTORY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES.

This warranty applies only within the United States.

NICKEL-CADMIUM BATTERY WARRANTY

- A. Com-Net Ericsson Critical Radio Systems, Inc. (hereinafter "Seller") warrants to the original purchaser for use (hereinafter "Buyer") that nickel-cadmium batteries supplied by Seller shall be free from defects in material and workmanship, and shall conform to its published specifications for a period of twelve (12) months from the date of purchase.
- B. For purposes of this warranty, batteries shall be deemed defective if (1) the battery capacity is less than 80% of rated capacity, or (2) the battery develops leakage.
- C. If any battery fails to meet the foregoing warranty, Seller shall correct the failure by issuing a replacement battery upon receipt of the defective battery at an Authorized Service Center (ASC). To obtain the name and address of an ASC, ask your salesperson, consult the Yellow Pages, or call the number printed at the bottom of this page.
- D. Replacement batteries shall be warranted only for the remaining unexpired warranty period of the original battery. This warranty becomes void if:
 - (1) The battery has been subjected to any kind of misuse, detrimental exposure, or has been involved in an accident.
 - (2) The battery is used in equipment or service other than the radio equipment for which it is specified.

- E. The preceding paragraphs set forth the exclusive remedies for claims (except as to title) based upon defects in or non-conformity of any battery, whether the claim is in contract, warranty, tort (including negligence), strict liability or otherwise, and however instituted. Upon the expiration of the warranty period, all such liability shall terminate. The foregoing warranties are exclusive and in lieu of all other warranties, whether oral, written, expressed, implied or statutory. NO IMPLIED OR STATUTORY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES.

This warranty applies only within the United States.

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Com-Net Ericsson Critical Radio Systems, Inc.

P.O. Box 2000

Lynchburg, Virginia 24501

Phone: 1-800-528-7711 or

Outside USA, 1-804-239-3028)

www.com-netericsson.com

Printed in U.S.A.